

## Morris County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/11/2018

Using the most recent IMPLAN data available (2016) adjusted for 2018, 15 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Morris County economy.<sup>1</sup>

These 15 sectors have a total direct output of approximately **\$152.2 million** and support **553 jobs** in Morris County. Running the model for all 15 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Morris County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
Direct Effect	553.2	19.05%	\$34,461,822	18.24%	\$152,236,459	80.56%
Indirect Effect	196.8	6.78%	\$8,354,661	4.42%	\$16,344,531	8.65%
Induced Effect	95.8	3.30%	\$5,734,393	3.03%	\$10,846,623	5.74%
<b>Total Effect</b>	<b>845.8</b>	<b>29.12%</b>	<b>\$48,550,877</b>	<b>25.69%</b>	<b>\$179,427,613</b>	<b>94.95%</b>

As shown in the above table, agriculture, food, and food processing sectors support **846 jobs**, or **29.12%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$179.4 million**, roughly **94.95% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 15 agriculture, food, and food processing sectors is approximately **\$48.6 million**, or **25.69% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **25.69% of the total economy**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **447 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Morris County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	447.4	\$109,740,735
Support activities for agriculture and forestry	107.9	\$4,600,361
All other crop farming	34.5	\$5,202,661
Wholesale trade	22.0	\$3,590,902
Landscape and horticultural services	19.7	\$563,545
Grain farming	18.0	\$13,339,685
Real estate	15.9	\$1,136,566
Monetary authorities and depository credit intermediation	13.0	\$2,427,404
Dairy cattle and milk production	9.8	\$5,521,445
Full-service restaurants	9.6	\$417,525

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$109.7 million** to the Morris County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	447.4	\$109,740,735
Oilseed farming	7.4	\$15,141,366
Grain farming	18.0	\$13,339,685
Dairy cattle and milk production	9.8	\$5,521,445
All other crop farming	34.5	\$5,202,661
Support activities for agriculture and forestry	107.9	\$4,600,361
Wholesale trade	22.0	\$3,590,902
Owner-occupied dwellings	0.0	\$3,073,578
Monetary authorities and depository credit intermediation	13.0	\$2,427,404
Electric power transmission and distribution	1.1	\$1,319,747

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Morris County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	7.4	\$15,141,366.26
Grain farming	18.0	\$13,339,684.71
Vegetable and melon farming	1.1	\$294,589.94
Fruit farming	0.3	\$38,407.83
Tree nut farming	0.0	\$21.74
Greenhouse, nursery, and floriculture production	2.0	\$354,963.25
All other crop farming	34.5	\$5,202,660.65
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	447.4	\$109,740,735.37
Dairy cattle and milk production	9.8	\$5,521,444.58
Poultry and egg production	0.7	\$887,226.09
Animal production, except cattle and poultry and eggs	1.3	\$291,468.96
Commercial hunting and trapping	1.8	\$36,759.44
Bread and bakery product, except frozen, manufacturing	4.6	\$440,947.89
Veterinary services	4.6	\$382,637.43
Landscape and horticultural services	19.7	\$563,544.59

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Morris County, the retail sector was omitted.